Index

IEE Proceedings Part I
Communications, Speech and Vision
Vol. 137, 1990

ABBREVIATIONS

- p paper, address or lecture
- d discussion on a paper
- a abstract of paper or address
- e errata

Author index

A

Abdel-Aal, R.E. Expansion of two-dimensional imaging apertures for resolution improvement in long-wavelength holography p157
Abdullah, S.N., and Alhakim, S.S. see Alhakim, S.S.
Aftelak, A., and Clark, A.P. see Clark, A.P.
Al-Jalili, Y.O., Al-Obaidi, A.A., and Habib, M.K. Characteristics of reduced bandwidth envelope detected minimum-phase signals p345
Al-Obaidi, A.A., Al-Jalili, Y.O., and Habib, M.K. see Al-Jalili, Y.O.
Alhakim, S.S., and Abdullah, S.N. Flexible pseudo-binary and pseudoquaternary detectors for 9600 bit/s modem p97
Ali, F., Honary, B., and Darnell, M. see Honary, B.
Allerton, D.J., Evemy, J.D., and Zaluska, E.J. see Evemy, J.D.
Allwood, R.J., Cooper, C.N., and Taylor, A. Diagnosing faults in a telecommunications network by an expert system p273
Ameen, S.Y., Bateman, S.C., and Clark, A.P. see Bateman, S.C.
Ameen, S.Y., and Bateman, S.C. see Bateman, S.C.
Andrisano, O., and Barigazzi, A. Interference effects in high spectrum efficiency M-QAM radio systems p213
Arnold, J.V., Jagoe, J.R., Blauth, C.I., Smith, P.L., Taylor, K.M., and Wootton, R. see Jagoe, J.R.
Atkin, G.E., and Fung, K.S. Performance analysis of coded optical PPM system using direct and coherent detection p226

B

Banks, R.N., and Elliman, D.G. see Elliman, D.G.
Barigazzi, A., and Andrisano, O. see Andrisano, O.
Bateman, S.C., Ameen, S.Y., and Clark, A.P. Adjustments of predetection filters in high-speed data transmission systems p355
Bateman, S.C., and Ameen, S.Y. Comparison of algorithms for use in adaptive adjustment of digital data receivers p85
Benelli, G. New mapping rules for combination of *M*-ary modulation and error-detecting codes in ARQ systems p197
Benelli, G., and Fantacci, R. New detection algorithm with reduced complexity p47
Benjamin, R. Security considerations in communication systems and networks p61
Blauth, C.I., Jagoe, J.R., Smith, P.L., Arnold, J.V., Taylor, K.M., and Wootton, R. see Jagoe, J.R.
Bons, J.H., de Klerk, M., Prasad, R., and Weyland, N.B.J. see de Klerk, M.
Boyce, J.F., and Haddon, J.F. see Haddon, J.F.
Bukofzer, D.C. Four-channel direct-bit detection receiver for 2-FSK/8-PSK modulated signals p395

C

Carrasco, R.A., and Corden, I.R. see Corden, I.R.
Chan, M.H., Yu, Y.B., and Constantinides, A.G. Variable size block matching motion compensation with applications to video coding p205
Chen, C.S., and Gurgen, F.S. see Gurgen, F.S.
Chen, C.S., and Yuan, J. see Yuan, J.
Chen, S., Gibson, G.J., and Cowan, C.F.N. Adaptive channel equalisation using a polynomial-perceptron structure p257
Cheung, S.W. Performance of a rate-3/4 coded signal, incorporated with a circular signal set for regenerative satellite transmissions p109
Chua, K.C., Wong, W.C., and Ngan, K.N. Error detection and correction of vector quantised digital images p417
Clark, A.P. Techniques for simplifying some near-maximum-likelihood detectors p281
Clark, A.P., Bateman, S.C., and Ameen, S.Y. see Bateman, S.C.
Clark, A.P., and Aftelak, A. Doppler-shift correction via correlation for a received QPSK signal p387
Constantinides, A.G., Chan, M.H., and Yu, Y.B. see Chan, M.H.
Cooper, C.N., Allwood, R.J., and Taylor, A. see Allwood, R.J.
Corden, I.R., and Carrasco, R.A. Fast transform based complex transmultiplexer algorithm for multiband quadrature digital modulation schemes p408
Cowan, C.F.N., Chen, S., and Gibson, G.J. see Chen, S.
Cowan, C.F.N., Siu, S., and Gibson, G.J. see Siu, S.
Crookes, D., Morrow, P.J., and McParland, P.J. IAL: a parallel image processing programming language p176

D

Darnell, M., Honary, B., and Ali, F. see Honary, B.
de Klerk, M., Prasad, R., Bons, J.H., and Weyland, N.B.J. Introducing high-resolution line graphics in UK teletext using differential chain coding p325
Dimakis, C.E., Kouris, S.S., and Kosmopoulos, S.A. Performance evaluation of 16-QAM signalling through nonlinear channels in an AWGN and interference environment: a simulation approach p315

E

Edwards, D.J., Kenington, P.B., and McGeehan, J.P. see Kenington, P.B.
Edwards, D.J., Kenington, P.B., and McGeehan, J.P. see Kenington, P.B.
Elliman, D.G., and Banks, R.N. Shift invariant neural net for machine vision p183
Ellis, T., and Kubrick, A. see Kubrick, A.
Esteves, N., and Gusmão, A. see Gusmão, A.
Evemy, J.D., Allerton, D.J., and Zaluska, E.J. Stream processing architecture for real-time implementation of perspective spatial transformations p123

F

Fantacci, R. Efficient automatic-repeated-request systems for high error rate conditions p302
Fantacci, R., and Benelli, G. see Benelli, G.
Fonseka, J.P. Limiter discriminator detection of *M*-ary FSK signals p265
Frazer, J.H., Hull, M.E.C., and Millar, R.J. see Hull, M.E.C.
Fung, K.S., and Atkin, G.E. see Atkin, G.E.

G

Gibson, G.J., Chen, S., and Cowan, C.F.N. see Chen, S.
Gibson, G.J., Siu, S., and Cowan, C.F.N. see Siu, S.
Gott, G.F., and Wong, S.W. see Wong, S.W.
Gurgen, F.S., and Chen, C.S. Speech enhancement by Fourier–Bessel coefficients p290
Gusmão, A., and Esteves, N. Generalised ENCAP-4^N digital modulation techniques p78

H

Habib, M.K., Al-Jalili, Y.O., and Al-Obaidi, A.A. see Al-Jalili, Y.O.
Haddon, J.F., and Boyce, J.F. Unification of image segmentation and edge detection p129
Hanka, R., and Varga, M. see Varga, M.
Honary, B., Ali, F., and Darnell, M. Information capacity of additive white Gaussian noise channel with practical constraints p295
Huang, Z., Yang, X., Zhu, X., and Kuh, A. Homomorphic linear predictive coding: a new estimation algorithm for all-pole speech modelling p103
Hull, M.E.C., Frazer, J.H., and Millar, R.J. Octree-based modelling of computed-tomography images p118

I

Izzo, L., Paura, L., and Poggi, G. Optimum threshold diversity reception of NCFSK signals in non-Gaussian noise p13

J

Jagoe, J.R., Blauth, C.I., Smith, P.L., Arnold, J.V., Taylor, K.M., and Wootton, R. Quantification of retinal damage during cardiopulmonary bypass: comparison of computer and human assessment p170
Jones, E.V., and Zhu, S. see Zhu, S.

K

Kawas Kaleh, G., and Sehier, P. see Sehier, P.
Kenington, P.B., McGeehan, J.P., and Edwards, D.J. Amplitude modulation and the first-order phase-locked loop p17
Kenington, P.B., McGeehan, J.P., and Edwards, D.J. Novel acquisition-aid design for the split-loop phase-lock receiver p25
Ko, C.C., Lye, K.M., and Wong, W.C. Simple priority scheme for multichannel CSMA/CD local area networks p365
Konstantinides, K., and Yao, K. Modelling and computationally efficient time domain linear equalisation of nonlinear bandlimited QPSK satellite channels p438
Korn, I., and Namet, M. M-ary frequency shift keying with differential phase detector in satellite mobile channel with narrowband receiver filter p33
Kosmopoulos, S.A., Dimakis, C.E., and Kouris, S.S. see Dimakis, C.E.
Kouris, S.S., Dimakis, C.E., and Kosmopoulos, S.A. see Dimakis, C.E.
Kubrick, A., and Ellis, T. Classified vector quantisation of images: codebook design algorithm p379
Kuh, A., Huang, Z., Yang, X., and Zhu, X. see Huang, Z.

L

Lye, K.M., Ko, C.C., and Wong, W.C. see Ko, C.C.

M

McGeehan, J.P., Kenington, P.B., and Edwards, D.J. see Kenington, P.B.
McGeehan, J.P., Kenington, P.B., and Edwards, D.J. see Kenington, P.B.
McParland, P.J., Crookes, D., and Morrow, P.J. see Crookes, D.
Millar, R.J., Hull, M.E.C., and Frazer, J.H. see Hull, M.E.C.
Morrow, P.J., Crookes, D., and McParland, P.J. see Crookes, D.

N

Namet, M., and Korn, I. see Korn, I.
Ngan, K.N., Chua, K.C., and Wong, W.C. see Chua, K.C.

O

O'Reilly, J.J., and Popplewell, A. Class of disparity reducing transmission codes with embedded error protection p73
Oosterlinck, A., Price, C.B., and Wambacq, P. see Price, C.B.

P

Paura, L., Izzo, L., and Poggi, G. see Izzo, L.
Poggi, G., Izzo, L., and Paura, L. see Izzo, L.
Popplewell, A., and O'Reilly, J.J. see O'Reilly, J.J.
Prasad, R., de Klerk, M., Bons, J.H., and Weyland, N.B.J. see de Klerk, M.
Price, C.B., Wambacq, P., and Oosterlinck, A. Image enhancement and analysis with reaction-diffusion paradigm p136

R

Rayner, P.J.W., and Vaseghi, S.V. see Vaseghi, S.V.
Richardson, A.J., and Watson, P.A. Use of the 55–65 GHz oxygen absorption band for short-range broadband radio networks with minimal regulatory control p233

S

Sehier, P., and Kawas Kaleh, G. Adaptive equaliser for differentially coherent receiver p9
Shamai, S. Capacity of a pulse amplitude modulated direct detection photon channel p424
Siu, S., Gibson, G.J., and Cowan, C.F.N. Decision feedback equalisation using neural network structures and performance comparison with standard architecture p221
Smith, P.L., Jagoe, J.R., Blauth, C.I., Arnold, J.V., Taylor, K.M., and Wootton, R. see Jagoe, J.R.

T

Taylor, A., Allwood, R.J., and Cooper, C.N. see Allwood, R.J.
Taylor, K.M., Jagoe, J.R., Blauth, C.I., Smith, P.L., Arnold, J.V., and Wootton, R. see Jagoe, J.R.
Tham, Y.K. Burst assignment for satellite-switched and earth-station frequency-hopping TDMA networks p247
Todd, T.D. Compatible metropolitan area gateways for integrated broadband cable systems p189

V

Varga, M., and Hanka, R. Dynamic elastic image stretching technique applied to thermographic images p146
Vaseghi, S.V., and Rayner, P.J.W. Detection and suppression of impulsive noise in speech communication systems p38

W

Wambacq, P., Price, C.B., and Oosterlinck, A. see Price, C.B.
Watson, P.A., and Richardson, A.J. see Richardson, A.J.
Weining, H. Performance analysis and improved detection scheme for DMSK with nonredundant error correction p431
Weinrichter, H., and Zou, G. see Zou, G.
Weyland, N.B.J., de Klerk, M., Prasad, R., and Bons, J.H. see de Klerk, M.
Wong, S.W., and Gott, G.F. Performance of adaptive frequency hopping modem on an HF link p371
Wong, W.C., Chua, K.C., and Ngan, K.N. see Chua, K.C.
Wong, W.C., Ko, C.C., and Lye, K.M. see Ko, C.C.
Wootton, R., Jagoe, J.R., Blauth, C.I., Smith, P.L., Arnold, J.V., and Taylor, K.M. see Jagoe, J.R.

Y

Yang, X., Huang, Z., Zhu, X., and Kuh, A. see Huang, Z.
Yao, K., and Konstantinides, K. see Konstantinides, K.
Yu, Y.B., Chan, M.H., and Constantinides, A.G. see Chan, M.H.
Yuan, J., and Chen, C.S. Neural net decoders for some block codes p309

Z

Zaluska, E.J., Evemy, J.D., and Allerton, D.J. see Evemy, J.D.
Zhu, S., and Jones, E.V. Multisegment pulse coding and high timing content line coding for digital transmission p1
Zhu, X., Huang, Z., Yang, X., and Kuh, A. see Huang, Z.
Zou, G., and Weinrichter, H. Structured trellis encoding p335

BIOMEDICAL APPLICATIONS

Image enhancement and analysis with reaction-diffusion paradigm. C.B. Price, P. Wambacq and A. Oosterlinck p136
Quantification of retinal damage during cardiopulmonary bypass: comparison of computer and human assessment. J.R. Jagoe, C.I. Blauth, P.L. Smith, J.V. Arnold, K.M. Taylor and R. Wootton p170

CABLES AND OVERHEAD LINES

Compatible metropolitan area gateways for integrated broadband cable systems. T.D. Todd p189

CODES AND DECODING

Multisegment pulse coding and high timing content line coding for digital transmission. S. Zhu and E.V. Jones p1
Neural net decoders for some block codes. J. Yuan and C.S. Chen p309
New detection algorithm with reduced complexity. G. Benelli and R. Fantacci p47
Performance analysis of coded optical PPM system using direct and coherent detection. G.E. Atkin and K.S. Fung p226
Security considerations in communication systems and networks. R. Benjamin p61
Variable size block matching motion compensation with applications to video coding. M.H. Chan, Y.B. Yu and A.G. Constantinides p205

COMMUNICATION SYSTEMS THEORY

Adaptive channel equalisation using a polynomial-perceptron structure. S. Chen, G.J. Gibson and C.F.N. Cowan p257
Capacity of a pulse amplitude modulated direct detection photon channel. S. Shamai p424
Characteristics of reduced bandwidth envelope detected minimum-phase signals. Y.O. Al-Jalili, A.A. Al-Obaidi and M.K. Habib p345
Classified vector quantisation of images: codebook design algorithm. A. Kubrick and T. Ellis p379
Doppler-shift correction via correlation for a received QPSK signal. A.P. Clark and A. Aftelak p387
Efficient automatic-repeated-request systems for high error rate conditions. R. Fantacci p302
Error detection and correction of vector quantised digital images. K.C. Chua, W.C. Wong and K.N. Ngan p417
Four-channel direct-bit detection receiver for 2-FSK/8-PSK modulated signals. D.C. Bukofzer p395
Information capacity of additive white Gaussian noise channel with practical constraints. B. Honary, F. Ali and M. Darnell p295
Introducing high-resolution line graphics in UK teletext using differential chain coding. M. de Klerk, R. Prasad, J.H. Bons and N.B.J. Weyland p325
Security considerations in communication systems and networks. R. Benjamin p61
Structured trellis encoding. G. Zou and H. Weinrichter p335

COMPUTER APPLICATIONS

Diagnosing faults in a telecommunications network by an expert system. R.J. Allwood, C.N. Cooper and A. Taylor p273
IAL: a parallel image processing programming language. D. Crookes, P.J. Morrow and P.J. McParland p176

DESIGN

Security considerations in communication systems and networks. R. Benjamin p61

DETECTION

Adaptive equaliser for differentially coherent receiver. P. Sehier and G. Kawas Kaleh p9
Adjustments of predetection filters in high-speed data transmission systems. S.C. Bateman, S.Y. Ameen and A.P. Clark p355
Capacity of a pulse amplitude modulated direct detection photon channel. S. Shamai p424
Flexible pseudobinary and pseudoquaternary detectors for 9600 bit/s modem. S.S. Alhakim and S.N. Abdullah p97
Four-channel direct-bit detection receiver for 2-FSK/8-PSK modulated signals. D.C. Bukofzer p395
Performance analysis and improved detection scheme for DMSK with non-redundant error correction. H. Weining p431
Techniques for simplifying some near-maximum-likelihood detectors. A.P. Clark p281

DIGITAL COMMUNICATION SYSTEMS

Interference effects in high spectrum efficiency M-QAM radio systems. O. Andrisano and A. Barigazzi p213
Multisegment pulse coding and high timing content line coding for digital transmission. S. Zhu and E.V. Jones p1
Techniques for simplifying some near-maximum-likelihood detectors. A.P. Clark p281

ERRORS AND ERROR ANALYSIS

Class of disparity reducing transmission codes with embedded error protection. J.J. O'Reilly and A. Popplewell p73
Efficient automatic-repeated-request systems for high error rate conditions. R. Fantacci p302
Error detection and correction of vector quantised digital images. K.C. Chua, W.C. Wong and K.N. Ngan p417
Limiter discriminator detection of *M*-ary FSK signals. J.P. Fonseka p265
New detection algorithm with reduced complexity. G. Benelli and R. Fantacci p47
New mapping rules for combination of *M*-ary modulation and error-detecting codes in ARQ systems. G. Benelli p197
Performance analysis and improved detection scheme for DMSK with non-redundant error correction. H. Weining p431
Performance analysis of coded optical PPM system using direct and coherent detection. G.E. Atkin and K.S. Fung p226

FEEDBACK

Decision feedback equalisation using neural network structures and performance comparison with standard architecture. S. Siu, G.J. Gibson and C.F.N. Cowan p221

FILTERS AND FILTERING

Adjustments of predetection filters in high-speed data transmission systems. S.C. Bateman, S.Y. Ameen and A.P. Clark p355
M-ary frequency shift keying with differential phase detector in satellite mobile channel with narrowband receiver filter. I. Korn and M. Namet p33

IMAGE PROCESSING

Dynamic elastic image stretching technique applied to thermographic images. M. Varga and R. Hanka p146
Expansion of two-dimensional imaging apertures for resolution improvement in long-wavelength holography. R.E. Abdel-Aal p157
IAL: a parallel image processing programming language. D. Crookes, P.J. Morrow and P.J. McParland p176
Image enhancement and analysis with reaction-diffusion paradigm. C.B. Price, P. Wambacq and A. Oosterlinck p136
Octree-based modelling of computed-tomography images. M.E.C. Hull, J.H. Frazer and R.J. Millar p118
Quantification of retinal damage during cardiopulmonary bypass: comparison of computer and human assessment. J.R. Jagoe, C.I. Blauth, P.L. Smith, J.V. Arnold, K.M. Taylor and R. Wootton p170
Shift invariant neural net for machine vision. D.G. Elliman and R.N. Banks p183
Stream processing architecture for real-time implementation of perspective spatial transformations. J.D. Evemy, D.J. Allerton and E.J. Zaluska p123
Unification of image segmentation and edge detection. J.F. Haddon and J.F. Boyce p129

INFORMATION AND COMMUNICATION THEORY

Information capacity of additive white Gaussian noise channel with practical constraints. B. Honary, F. Ali and M. Darnell p295

MATHEMATICAL TECHNIQUES

Comparison of algorithms for use in adaptive adjustment of digital data receivers. S.C. Bateman and S.Y. Ameen p85
Homomorphic linear predictive coding: a new estimation algorithm for all-pole speech modelling. Z. Huang, X. Yang, X. Zhu and A. Kuh p103
New detection algorithm with reduced complexity. G. Benelli and R. Fantacci p47
Stream processing architecture for real-time implementation of perspective spatial transformations. J.D. Evemy, D.J. Allerton and E.J. Zaluska p123
Unification of image segmentation and edge detection. J.F. Haddon and J.F. Boyce p129
Variable size block matching motion compensation with applications to video coding. M.H. Chan, Y.B. Yu and A.G. Constantinides p205

MODULATION

Amplitude modulation and the first-order phase-locked loop. P.B. Kenington, J.P. McGeehan and D.J. Edwards p17
Generalised ENCAP-4^{n} digital modulation techniques. A. Gusmão and N. Esteves p78
New mapping rules for combination of *M*-ary modulation and error-detecting codes in ARQ systems. G. Benelli p197

NETWORKS

Burst assignment for satellite-switched and earth-station frequency-hopping TDMA networks. Y.K. Tham p247
Neural net decoders for some block codes. J. Yuan and C.S. Chen p309
Security considerations in communication systems and networks. R. Benjamin p61
Shift invariant neural net for machine vision. D.G. Elliman and R.N. Banks p183
Simple priority scheme for multichannel CSMA/CD local area networks. C.C. Ko, K.M. Lye and W.C. Wong p365
Use of the 55–65 GHz oxygen absorption band for short-range broadband radio networks with minimal regulatory control. A.J. Richardson and P.A. Watson p233

NOISE AND INTERFERENCE

Detection and suppression of impulsive noise in speech communication systems. S.V. Vaseghi and P.J.W. Rayner p38
Optimum threshold diversity reception of NCFSK signals in non-Gaussian noise. L. Izzo, L. Paura and G. Poggi p13
Performance evaluation of 16-QAM signalling through nonlinear channels in an AWGN and interference environment: a simulation approach. C.E. Dimakis, S.S. Kouris and S.A. Kosmopoulos p315
Speech enhancement by Fourier–Bessel coefficients. F.S. Gurgen and C.S. Chen p290

OPTICS

Expansion of two-dimensional imaging apertures for resolution improvement in long-wavelength holography. R.E. Abdel-Aal p157
Performance analysis of coded optical PPM system using direct and coherent detection. G.E. Atkin and K.S. Fung p226

PICTURE PROCESSING AND PATTERN RECOGNITION

Stream processing architecture for real-time implementation of perspective spatial transformations. J.D. Evemy, D.J. Allerton and E.J. Zaluska p123

POWER TRANSMISSION AND DISTRIBUTION

Decision feedback equalisation using neural network structures and performance comparison with standard architecture. S. Siu, G.J. Gibson and C.F.N. Cowan p221

RADAR AND RADIONAVIGATION

Amplitude modulation and the first-order phase-locked loop. P.B. Kenington, J.P. McGeehan and D.J. Edwards p17

RADIOCOMMUNICATION

Performance of adaptive frequency hopping modem on an HF link. S.W. Wong and G.F. Gott p371

RECEIVERS

Adaptive equaliser for differentially coherent receiver. P. Sehier and G. Kawas Kaleh p9
Amplitude modulation and the first-order phase-locked loop. P.B. Kenington, J.P. McGeehan and D.J. Edwards p17
Comparison of algorithms for use in adaptive adjustment of digital data receivers. S.C. Bateman and S.Y. Ameen p85
Four-channel direct-bit detection receiver for 2-FSK/8-PSK modulated signals. D.C. Bukofzer p395
Generalised ENCAP-4^M digital modulation techniques. A. Gusmão and N. Esteves p78
M-ary frequency shift keying with differential phase detector in satellite mobile channel with narrowband receiver filter. I. Korn and M. Namet p33
Novel acquisition-aid design for the split-loop phase-lock receiver. P.B. Kenington, J.P. McGeehan and D.J. Edwards p25

SATELLITE LINKS AND SPACE COMMUNICATION

Burst assignment for satellite-switched and earth-station frequency-hopping TDMA networks. Y.K. Tham p247
Modelling and computationally efficient time domain linear equalisation of nonlinear bandlimited QPSK satellite channels. K. Konstantinides and K. Yao p438
Performance of a rate-3/4 coded signal, incorporated with a circular signal set for regenerative satellite transmissions. S.W. Cheung p109

SIGNAL PROCESSING

Performance evaluation of 16-QAM signalling through nonlinear channels in an AWGN and interference environment: a simulation approach. C.E. Dimakis, S.S. Kouris and S.A. Kosmopoulos p315
Performance of a rate-3/4 coded signal, incorporated with a circular signal set for regenerative satellite transmissions. S.W. Cheung p109
Use of the 55–65 GHz oxygen absorption band for short-range broadband radio networks with minimal regulatory control. A.J. Richardson and P.A. Watson p233

SIMULATION

Modelling and computationally efficient time domain linear equalisation of nonlinear bandlimited QPSK satellite channels. K. Konstantinides and K. Yao p438
Octree-based modelling of computed-tomography images. M.E.C. Hull, J.H. Frazer and R.J. Millar p118

SPEECH SYNTHESIS

Detection and suppression of impulsive noise in speech communication systems. S.V. Vaseghi and P.J.W. Rayner p38
Homomorphic linear predictive coding: a new estimation algorithm for all-pole speech modelling. Z. Huang, X. Yang, X. Zhu and A. Kuh p103
Speech enhancement by Fourier–Bessel coefficients. F.S. Gurgen and C.S. Chen p290

TELECOMMUNICATION

Diagnosing faults in a telecommunications network by an expert system. R.J. Allwood, C.N. Cooper and A. Taylor p273
Fast transform based complex transmultiplexer algorithm for multiband quadrature digital modulation schemes. I.R. Corden and R.A. Carrasco p408

TELEPHONE EXCHANGES AND NETWORKS

Flexible pseudobinary and pseudoquaternary detectors for 9600 bit/s modem. S.S. Alhakim and S.N. Abdullah p97

TRANSMISSION LINES

Performance of a rate-3/4 coded signal, incorporated with a circular signal set for regenerative satellite transmissions. S.W. Cheung p109